

CLAIMS

What is claimed is:

1. An odor-mitigating composition comprising a polymeric odor-mitigating reagent having one or more functional groups selected the group consisting of a Lewis Acid, a Lewis Base, an oxidizing agent, a hydro-sulfur labile compound or a reducing agent, wherein the polymeric reagent is substantially non-leaching and wherein the polymeric odor-mitigating reagent is contacted to a solid support.
2. The composition of claim 1 disposed in a device for use in contact with skin, hair or clothing of a user.
3. The composition of claim 2 wherein the device is a diaper.
4. The composition of claim 2 wherein the device is a shoe liner.

- 1 5. The composition of claim 2 wherein the device is a wound dressing.
- 2 6. The composition of claim 2 wherein the device is a sanitary pad.
- 3 7. The composition of claim 2 wherein in the device is a face mask.
- 4 8. The composition of claim 2 wherein the device is a hair care cap or cover.
- 5 9. The composition of claim 1, further comprising one or more promoters.
- 6 10. The composition of claim 1, further comprising a non-polymeric odor-mitigating reagent.
- 7 11. The composition of claim 10 wherein the non-polymeric odor-mitigating reagent is a
8 Lewis Acid.
- 9 12. The composition of claim 10 wherein the non-polymeric odor-mitigating reagent is a
10 Lewis Base.
- 11 13. The composition of claim 10 wherein the non-polymeric reagent is an oxidizing agent or
12 hydro-sulfur labile compound.
- 13 14. The composition of claim 13 wherein the oxidizing agent is a sodium salt of
14 dichloroisocyanuric acid.
- 15 15. An odor-mitigating composition comprising an admixture of:
- 16 (a) a polymeric promoter,
- 17 (b) an OMR, wherein the OMR is substantially non-leaching in the presence of the
18 polymeric promoter, wherein the OMR is contacted to a solid support.
- 19 16. The composition of claim 15 wherein the OMR comprises a Lewis Acid.
- 20 17. The composition of claim 15 wherein the OMR comprises a Lewis Base.
- 21 18. The composition of claim 15 wherein the OMR comprises an oxidizing agent or a hydro-
22 sulfur labile compound.

- 1 19. The composition of claim 15 wherein the OMR comprises 0.1%-10.0% by weight of
2 oxidizing agent.
- 3 20. The composition of claim 15 wherein the OMR is the sodium salt of dichloroisocyanuric
4 acid.
- 5 21. The composition of claim 15 wherein the OMR is polymeric.
- 6 22. The composition of claim 15 wherein the polymeric promoter comprises a polyether
7 material.
- 8 23. The composition of claim 22 wherein the polyether material is polypropylene oxide,
9 polyethylene oxide or carbowax.
- 10 24. The composition of claim 15 further comprising a low molecular weight polyether.
- 11 25. The composition of claim 24 wherein the low molecular weight polyether is a non-ionic
12 surfactant ethylene oxide adduct having 6 or more ethylene oxide units.
- 13 26. The composition of claim 15 further comprising a disinfectant.
- 14 27. The composition of claim 26 wherein the disinfectant comprises ethanol or a quarternary
15 ammonium halide.
- 16 28. A device containing the composition of claim 15, wherein the device contains layered or
17 segregated composites, and wherein one or more of the composites comprises an OMR
18 comprising a Lewis Acid, and one or more of the remaining composites comprises an
19 OMR comprising a Lewis Base.
- 20 29. The device of claim 28 further comprising a oxidizing agent or a hydro-sulfur labile
21 compound as an OMR in one or more of the composites.
- 22 30. A device comprising the composition of claim 15.
- 23 31. A diaper comprising the composition of claim 15.
- 24 32. A shoe liner comprising the composition of claim 15.

- 1 33. A wound dressing comprising the composition of claim 15.
- 2 34. A sanitary pad comprising the composition of claim 15.
- 3 35. A face mask comprising the composition of claim 15.
- 4 36. A hair care cap or cover comprising the composition of claim 15.
- 5 37. Use of the device of claim 30 outdoors.
- 6 38. An odor-mitigating device comprising:
- 7 (a) an effective amount of a bleach or chlorine donor, and
- 8 (b) a polymer capable of neutralizing hydrochloric acid.
- 9 39. The device of claim 38, wherein the polymer comprises carboxylate salt functional
10 groups.
- 11 40. The device of claim 39, wherein the polymer is a super-absorbent polymer.
- 12 41. The device of claim 38 wherein the device is a disposable diaper.
- 13 42. The device of claim 38 wherein the device is an incontinence pad.
- 14 43. A method of mitigating a malodorant or other contaminant comprising exposing the
15 composition of claim 15 to an environment containing the malodorant or other
16 contaminant.
- 17 44. The method of claim 43 wherein the malodorant or other contaminant is air-borne.
- 18 45. The method of claim 43 wherein the malodorant or other contaminant is in liquid
19 solution.
- 20 46. The method of claim 43, wherein the malodorant is ammonia.